



SPECIFICATION SHEET

Important Note: Centrifuge before opening to ensure complete recovery of vial contents.

Catalog #: K74190G **Lot #:** 9D12212

Description: Goat anti Apo E
Goat Antibody to Human Apolipoprotein E (Apo E)

Specificity: Binds to Apo E. Recognizes isoforms E2, E3 and E4.

Host Animal: Goat

Immunogen: Purified human Apo E from human plasma.

Format: Affinity Purified, Liquid

Purification: Human Apo E-Sepharose Affinity Column

Concentration: 1 mg/mL (OD280nm, $E^{0.1\%} = 1.35$)

Buffer: 75 mM Sodium Phosphate, 75 mM Sodium Chloride, 0.5 mM EDTA, pH 7.2.

Preservative: 0.02% Sodium Azide

Applications: Can be used for detection of Apo E in plasma and lipoproteins; for ELISA and Western blot (1:200 – 1:80,000), enzyme conjugation and biotinylation. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

Storage: Short-term store at 2-8° C. Long term store at -20°C. Avoid multiple freeze/thaw cycles.

Warning: This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1 – 1.0%. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

References:

The references listed below are for research purposes only:

1. Wassef, H., et al., (2004), "Synthesis and Secretion of ApoC-I and ApoE during Maturation of Human SW872 Liposarcoma Cells", *J. Nutr.*, 134: 2935-2941.
2. DeMattos, R.B., et al., (1999), "A Test of the Cytosolic Apolipoprotein E Hypothesis Fails to Detect the Escape of Apolipoprotein E from the Endocytic Pathway into the Cytosol and Shows that Direct Expression of Apolipoprotein E in the Cytosol is Cytotoxic", *The Journal of Neuroscience*, **19**(7): 2464-2473.
3. Hastay, A.H., et al., (1999), "Retroviral Gene Therapy in ApoE-Deficient Mice ApoE Expression in the Artery Wall Reduces Early Foam Cell Lesion Formation", *Circulation*, **99**: 2571-2576.
4. Kitchens, R.L., et al., (2003), "Acute inflammation and infection maintain circulating phospholipid levels and enhance lipopolysaccharide binding to plasma lipoproteins", *J. Lipid Res.*, **44**: 2339-2348.
5. Swift, L.L., et al., (2001), "A Recycling Pathway for Resecretion of Internalized Apolipoprotein E in Liver Cells", *The Journal of Biological Chemistry*, **276**(25): 22965-22970.
6. Wilhelmus, M.M.M., (2005), "Apolipoprotein E Genotype Regulates Amyloid-beta Cytotoxicity", *The Journal of Neuroscience*, **25**(14): 3621-3627.
7. Böttcher, A., et al., (2000), "Preparative free-solution isotachopheresis for separation of human plasma lipoproteins: apolipoprotein and lipid composition of HDL subfractions", *J. Lipid Res.*, **41**: 905-915.

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